

Appln. No. 10/748,856
Amendment
Reply to Office Action dated September 2, 2005

Docket No. 7202-52

AMENDMENTS TO THE CLAIMS

This listing will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A synchronous electric motor (3), particularly for washing machines (1) and similar household appliances with having a rotary drum (2) being kinematically connected to the motor (3) by a belt and a pulley link (6), of the type the synchronous electric motor comprising:

a central stator (5) fixedly mounted on an axis (7);

a rotor (4) having permanent magnets (13), the rotor being outside the stator (5) and rotatably supported and overhanging on said axis (7) with at least one bearing (15) interposed; characterized in that it comprises:

a pulley (12,12a,12b) rotatably rigid rigidly rotatable with the rotor (4); and that wherein said rotor (4) has an essentially cylindrical cup shape with an end wall (26,36) provided with a hub (20,20a) receiving said bearing (15),

wherein said on said hub (20) being inserted a pulley (12,12a,12b) is mounted on said hub and is rotatably integral therewith; and it

wherein at least a section of said pulley has a predetermined number of grooves, which are positioned according to the position of grooves of the pulley connected with the rotary drum.

2. (Currently amended) The motor according to claim 1, characterized in that wherein said hub (20,20a) is engaged in an end section (14) of said pulley (12,12a).

3. (Currently amended) The motor according to claim 2, characterized in that the wherein an other end (16) of said pulley (12) is rotatably mounted on said axis (7) with an interposed relevant second bearing (19).

4. (Cancelled)

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5. (Currently amended) The motor according to claim 1, characterized in that wherein said pulley has grooves ~~(17)~~ throughout its length.

6. (Currently amended) The motor according to claim 1, characterized in that wherein said pulley ~~(12)~~ is attached to said end wall ~~(26)~~ by using fixing means ~~(29)~~.

7. (Cancelled)

8. (Currently amended) The motor according to claim ~~[[7]]~~ 1, characterized in that wherein said pulley ~~(12a)~~ is removably integral with the a free end of said hub ~~(20a)~~.

9. (Currently amended) The motor according to claim 1, characterized in that wherein the diameter of said pulley is essentially equal to the diameter of the rotor ~~(4)~~.

10. (Currently amended) A method for manufacturing a synchronous electric motor ~~(3) particularly for a washing machine having a rotary drum kinematically connected to the motor by a belt and a pulley link, said motor having a central stator (5) and a permanent-magnet external rotor (4) according to the previous claims, the method~~ comprising the steps of:

a. providing a casing ~~(22)~~ of essentially cylindrical shape, having an end wall ~~(26)~~ centrally provided with a hub ~~(20,20a)~~ or an outward projecting sleeve ~~(37)~~;

b. providing at least one bearing ~~(15,38)~~ between the hub ~~(20,20a)~~ or sleeve ~~(37)~~ and ~~the a~~ motor-supporting axis ~~(7)~~;

c. attaching a pulley ~~(12,12a,42)~~ to said hub or sleeve of the for motion transmission kinematism ~~(6)~~ between the motor and the drum to said hub ~~(20,20a)~~ or sleeve ~~(37)~~; and

d. mounting the pulley rotatably on said axis with an interposed second bearing.

11. (Currently amended) The method according to claim 10, characterized in that wherein said pulley is also attached to said end wall ~~(26)~~ by fixing means ~~(29)~~.

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12. (Currently amended) The method according to claim 10, ~~characterized in that~~
wherein the end wall (36) is removably attached to said cylindrical casing (22).

13. (Cancelled)

14. (Currently amended) The method according to claim 10, ~~characterized in that~~
wherein said pulley (12a) is removably integral with ~~the~~ a free end of said hub (20a).

15. (Currently amended) The method according to claim 10, ~~characterized in that~~
wherein said pulley (42) is integral with one end of the sleeve (37).

16. (New) A synchronous electric motor, particularly for washing machines and similar household appliances having a rotary drum kinematically connected to the motor by a belt and a drum pulley, the synchronous electric motor comprising:

a central stator fixedly mounted on an axis;

a rotor having permanent magnets, being outside the stator and rotatably supported on said axis with at least one bearing interposed; and

a rotor pulley rigidly rotatable with the rotor,

wherein said rotor has an essentially cylindrical cup element having a cylindrical casing, an end wall fitted at one end of said casing and a sleeve projecting outward from said end wall, said sleeve receiving inside a second bearing.

17. (New) The motor according to claim 16, wherein said end wall has a sidewall fitted inside said one end of said casing and engaged with fixing screws.

18. (New) The motor according to claim 9, wherein said rotor pulley is integral with a free end of said sleeve.

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19. (New) The motor according to claim 9, wherein said rotor pulley is removably mounted on said sleeve receiving inside said second bearing.

20. (New) The motor according to claim 8, wherein the diameter of said rotor pulley is essentially equal to the diameter of the rotor.